Egg Drop Experiment

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The Scientific Method

Problem/Question: Will the egg break in the capsule?

Observations: The egg is secured underneath the cup with cotton balls in it. The egg is very delicate. Wind speed 6 mph. partly sunny and 70 degrees Fahrenheit

Hypothesis: The egg will not break.

Experiment:

Materials: shoe box, hot glue, 7 cotton balls, masking tape, plastic tape, cup, 2 pieces of bubble wrap, and about 13 Popsicle sticks

Procedure:

1. Get box
2. glue cotton balls in cup
3. glue bubble wrap on sides & top of the shoe box
4. tape down the cup to the shoe box

Control & Variables:

1. The Control: The same kind of egg dropped an egg of a 10 ft. ladder, 70 degrees Fahrenheit, pavement on the ground, partly sunny, wind speed 6 mph.
2. Independent Variable: how everyone designed there boxes
3. Dependent Variable: cotton balls and bubble wrap

What worked to save the egg: The shoe box, tape, and cotton balls>

What didn’t work to save the egg: the Popsicle sticks and the bubble wrap.

Conclusion: the capsule and the egg survived the 10 foot drop.

How would you repeat the experiment?

A: Make the 10 ft. drop a 20 ft. drop